

Journal of the Lepidopterists' Society
51(3), 1997, 272-273

SUPPLEMENT TO THE LIST OF THE BUTTERFLIES OF MICHIGAN

Additional key words: HesperIIDae, LycaenIDae, NymphalIDae, faunal surveys, checklists.

The following contribution represents an addition to the previously published faunal lists for Michigan Lepidoptera (Moore 1960, Perkins 1968, Nielsen 1970). Records range from 1941 to the present time, and represent collecting by myself. Two state zones (NLP = Northern Lower Peninsula; SLP = Southern Lower Peninsula) are recognized, and county names are given for individual records. A date with a trailing asterisk represents the earliest date captured whereas a leading asterisk represents the latest date of capture in a zone. Nomenclature follows Hodges (1983).

- Erynnis icelus* (Scudder & Burgess) (HesperIIDae) SLP: Barry; *June 26
Erynnis horatius (Scudder & Burgess) (HesperIIDae) SLP: Oakland
Carterocephalus palaemon mandan (Edwards) (HesperIIDae) SLP Oakland; June 20*
Thymelicus lineola (Ochsenheimer) (HesperIIDae) NLP: Newaygo. SLP: Huron
Hesperia sassacus Harris (HesperIIDae) SLP: Barry
Polites coras (Cramer) (HesperIIDae) SLP: Barry
Wallengrenia egeremet (Scudder) (HesperIIDae) NLP: Newaygo
Pompeius verna (Edwards) (HesperIIDae) SLP: *19 August
Poanes hobomok (Harris) (HesperIIDae) SLP: Barry; *July 11
Euphyes bimacula (Grote & Robinson) (HesperIIDae) NLP: Newaygo; *July 15
Euphyes ruricola metacomet (Harris) (HesperIIDae) SLP: *August 19
Papilio polyxenes asterius Stoll (PapilionIDae) SLP: Huron
Papilio troilus Linnaeus (PapilionIDae) NLP: Newaygo
Artogeia rapae (Linnaeus) (PierIDae) SLP: Lapeer, Sanilac, Tuscola
Colias philodice Godart (PierIDae) NLP: Newaygo. SLP: Sanilac, Tuscola; May 4*
Colias eurytheme Boisduval (PierIDae) SLP: Huron, Lapeer, Sanilac, Tuscola
Lycaena phlaeas americana Harris (LycaenIDae) NLP: Newaygo. SLP: *October 1
Hyllolycaena hyllus (Cramer) (LycaenIDae) SLP: Tuscola
Epidemia dorcas (Kirby) (LycaenIDae) SLP: June 13, *August 19
Epidemia helleoides (Boisduval) (LycaenIDae) NLP: Newaygo
Harkenclenus titus (Fabricius) (LycaenIDae) NLP: Newaygo
Satyrium edwardsii (Grote & Robinson) (LycaenIDae) SLP: *5 August
Satyrium caryaevorum (McDunnough) (LycaenIDae) SLP: June 26*
Satyrium liparops strigosum (Harris) (LycaenIDae) SLP: *August 19
Everes comyntas (Godart) (LycaenIDae) NLP: Newaygo. SLP: Huron
Celastrina ladon (Cramer) (LycaenIDae) NLP: Newaygo
Aglais milberti (Godart) (NymphalIDae) SLP: Barry
Vanessa virginiensis (Drury) (NymphalIDae) SLP: Barry
Vanessa cardui (Linnaeus) (NymphalIDae) SLP: Huron
Phyciodes tharos (Drury) (NymphalIDae) SLP: Lapeer; *Oct 1
Euphydryas phaeton (Drury) (NymphalIDae) SLP: *August 7
Basilarchia archippus (Cramer) (NymphalIDae) SLP: Tuscola
Cercyonis pegala nephele (Kirby) (Satyridae) SLP: July 3*

LITERATURE CITED

- HODGES, R. W. (ed.). 1983. Check list of the Lepidoptera of America north of Mexico. E. W. Classey Ltd. and The Wedge Entomological Research Foundation. London. 284 pp.
 MOORE, S. 1960. A revised annotated list of the butterflies of Michigan. Occ. Papers Mus. Zool. Univ. Michigan 617:1-39.

NIELSEN, M. C. 1970. New Michigan butterfly records. *J. Lepid. Soc.* 24:42-47.

PERKINS, O. A. 1968. Addenda to the list of the butterflies of Michigan. *J. Lepid. Soc.* 22:119-120.

OWEN A. PERKINS, 2806 Linwood, Royal Oak, Michigan 48073-3023, USA.

Received for publication 18 February 1997; revised and accepted 5 April 1997.

Journal of the Lepidopterists' Society
51(3), 1997, 273-275

REDISCOVERY OF *LETHE EUROPA TAMUNA* WITH NOTES ON
OTHER THREATENED BUTTERFLIES FROM THE ANDAMAN AND
NICOBAR ISLANDS

Additional key words: Legal protection, status reassessment.

Drawing on data from the IUCN Conservation Monitoring Centre, the United Nations Environment Program (UNEP) (1987) listed six species of butterflies as threatened from the Indian coastal region. Four of these—one species and three subspecies—are endemic to the Andaman and Nicobar islands (Table 1). Three of these taxa have been termed "very rare" while *Graphium epaminondas* Oberthur was termed "locally common" by both Evans (1932) and Ferrar (1948). Khatri (1996) recently reported that two of these taxa, *Lethe europa tamuna* de Niceville and *Neptis sankara nar* de Niceville, were extirpated on these islands. We present here new information on three of the four taxa rated "threatened" from the Andaman and Nicobar islands, including biological notes on the rediscovery of *Lethe europa tamuna*.

Lethe europa tamuna de Niceville (Nymphalidae: Satyrinae). This is one of the rarest butterflies from the islands, being known previously from a single female specimen collected on Little Nicobar. Ferrar (1948) reported observing another female on Great Nicobar some time before he left the islands in 1931. On a collecting trip to Great Nicobar Island in December 1996, the senior author observed four females, and found two eggs and two larvae of this butterfly at three localities in the Campbell Bay area of Great Nicobar. Both the adults and immatures were found along roadsides where the forests had been disturbed by human activity. One of the females was seen resting on moist sand on the banks of a stream. Another female was observed ovipositing on the upper surface of a leaf of the climbing bamboo, *Dinochloa andamanica* Kurz. Eggs were laid on leaves well within the clump, not on the fringes. The larvae (Fig. 1B) were sleeved and observed periodically for about two weeks. They fed and passed through several instars, and confirmed *D. andamanica* as a host plant that supports development. We suspect this butterfly is not as rare as previously thought, but its status can be reliably assessed only after further studies are conducted.

Doleschallia bisaltide andamana Fruhstorfer (Nymphalidae: Nymphalinae). This butterfly has been considered rarer in the Nicobars (Car and Central Nicobar) than in the Andaman islands (Evans 1932, Ferrar 1948). Its cryptic habits have perhaps contributed to an underestimate of its abundance. We have observed eggs, larvae and adults of this butterfly at S. Andaman and at Great Nicobar. The larvae completed their life cycles on the plants on which they were found, when sleeved (see Table 1). We found from 15 to 58 adults feeding on the small white blossoms of medium sized trees of *Ligustrum glomeratum* Blume (Oleaceae) at Chidyatapu (Fig. 1D) in S. Andaman in 1994, 1995 and 1996. At Campbell Bay on Great Nicobar, 16 eggs were observed on *P. album* (Nees) Merr. (located in less than 30 min of search); 3 females were also observed in flight.